

# Best Available Copy

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W E L C O M E   T O   T H E  
U . S .   P A T E N T   T E X T   F I L E

=> s re-initiation or reinitiation?

211787 RE  
71772 INITIATION  
194 RE-INITIATION  
(RE(W) INITIATION)  
440 REINITIATION?  
L1 618 RE-INITIATION OR REINITIATION?

=> s l1 and translation

55536 TRANSLATION  
L2 90 L1 AND TRANSLATION

=> s l2 and expression vector?

82754 EXPRESSION  
75087 VECTOR?  
9528 EXPRESSION VECTOR?  
(EXPRESSION(W) VECTOR?)  
L3 40 L2 AND EXPRESSION VECTOR?

=> s l3 and marker?

42359 MARKER?  
L4 33 L3 AND MARKER?

=> d 14,1-33,cit

1. 5,869,631, Feb. 9, 1999, Variant of LAV viruses; Marc Alizon, et al., 536/23.1; 435/235.1; 530/324, 350, 395 [IMAGE AVAILABLE]
2. 5,866,784, Feb. 2, 1999, Recombinant plant expressing non-competitively binding insecticidal crystal proteins; Herman Van Mellaert, et al., 435/320.1, 419, 430; 536/23.71 [IMAGE AVAILABLE]
3. 5,856,144, Jan. 5, 1999, Direct cloning of DNA fragments; Robert C. Mierendorf, et al., 435/91.2, 91.4, 320.1 [IMAGE AVAILABLE]
4. 5,854,392, Dec. 29, 1998, .beta. APP-C100 receptor; Susan P. Manly, et al., 530/350; 435/69.1; 530/327, 395; 536/23.5 [IMAGE AVAILABLE]
5. 5,854,037, Dec. 29, 1998, Recombinant negative strand RNA virus expression systems and vaccines; Peter Palese, et al., 435/69.1, 91.33, 235.1, 320.1; 530/350; 536/23.72 [IMAGE AVAILABLE]
6. 5,840,520, Nov. 24, 1998, Recombinant negative strand RNA virus expression systems; David Kirkwood Clarke, et al., 435/69.1; 424/199.1;

435/235.1, 320.1; 536/23.1 [IMAGE AVAILABLE]

7. 5,824,482, Oct. 20, 1998, Purification, cloning, and characterization of a novel human immunodeficiency virus LAV.sub.MAL; Marc Alizon, et al., 435/7.1; 424/188.1, 208.1; 435/5, 235.1 [IMAGE AVAILABLE]

8. 5,820,871, Oct. 13, 1998, Recombinant negative strand RNA virus expression systems and vaccines; Peter Palese, et al., 424/209.1, 206.1; 435/320.1 [IMAGE AVAILABLE]

9. 5,798,233, Aug. 25, 1998, Glycosyltransferases for biosynthesis of oligosaccharides, and genes encoding them; Emil C. Gotschlich, 435/97, 193 [IMAGE AVAILABLE]

10. 5,786,199, Jul. 28, 1998, Recombinant negative strand RNA virus expression systems and vaccines; Peter Palese, 435/239, 194, 235.1, 320.1, 456, 465; 536/23.1, 23.72 [IMAGE AVAILABLE]

11. 5,773,602, Jun. 30, 1998, DNA fragments obtained from a novel human immunodeficiency virus designated LAV.sub.MAL; Marc Alizon, et al., 536/23.72; 424/188.1; 536/23.1, 24.1 [IMAGE AVAILABLE]

12. 5,747,242, May 5, 1998, Diagnostic kits and methods for detecting antibodies to LAV viruses; Marc Alizon, et al., 435/5, 7.1, 7.9, 7.92, 7.94, 7.95, 974, 975; 436/518, 528, 531, 534; 530/324, 326, 328, 329, 350, 826 [IMAGE AVAILABLE]

13. 5,739,026, Apr. 14, 1998, DNA expression systems based on alphaviruses; Henrik Garoff, et al., 435/352, 320.1, 325; 536/23.72, 24.1 [IMAGE AVAILABLE]

14. 5,738,985, Apr. 14, 1998, Method for selective inactivation of viral replication; Vincent J. Miles, et al., 435/5, 6, 7.1, 254.2 [IMAGE AVAILABLE]

15. 5,733,779, Mar. 31, 1998, Impaired dominant selectable **marker** sequence and intronic insertion strategies for enhancement of expression of gene product and **expression vector** systems comprising same; Mitchell E. Reff, 435/320.1; 536/23.1, 24.1 [IMAGE AVAILABLE]

16. 5,716,834, Feb. 10, 1998, Cloned factor C cDNA of the Singapore horseshoe crab, *Carcinoscorpius rotundicauda* and purification of factor C proenzyme; Jeak Ling Ding, et al., 435/219, 252.33, 254.11, 320.1; 536/23.2 [IMAGE AVAILABLE]

17. 5,712,144, Jan. 27, 1998, Cloned factor C cDNA of the Singapore Horseshoe Crab, *Carcinoscorpius rotundicauda* and purification of Factor C proenzyme; Jeak Ling Ding, et al., 435/219; 424/94.63, 94.64, 522; 435/226 [IMAGE AVAILABLE]

18. 5,705,367, Jan. 6, 1998, Glycosyltransferases for biosynthesis of oligosaccharides, and genes encoding them; Emil C. Gotschlich, 435/97, 193 [IMAGE AVAILABLE]

19. 5,698,686, Dec. 16, 1997, Yeast telomerase compositions; Daniel E. Gottschling, et al., 536/23.1; 435/6, 91.2; 536/22.1, 24.3, 24.31, 24.33 [IMAGE AVAILABLE]

20. 5,695,954, Dec. 9, 1997, DNA encoding two fish neuropeptides; Nancy Gail McKeown Sherwood, et al., 435/69.1, 69.2, 69.4, 252.3, 320.1, 325, 365.1; 536/23.1, 23.51 [IMAGE AVAILABLE]

21. 5,648,267, Jul. 15, 1997, Impaired dominant selectable **marker** sequence and intronic insertion strategies for enhancement of expression of gene product and **expression vector** systems comprising same;

Mitchell E. Reff, 435/320.1, 252.3, 325, 342, 352, 354, 357, 358, 364, 365, 369 [IMAGE AVAILABLE]

22. 5,578,473, Nov. 26, 1996, Recombinant negative strand RNA virus; Peter Palese, et al., 435/235.1, 236, 320.1 [IMAGE AVAILABLE]

23. 5,545,553, Aug. 13, 1996, Glycosyltransferases for biosynthesis of oligosaccharides, and genes encoding them; Emil C. Gotschlich, 435/252.33, 72, 193, 243, 320.1; 536/23.2 [IMAGE AVAILABLE]

24. 5,474,920, Dec. 12, 1995, Modified thermo-resistant DNA polymerases; Robb E. Moses, 435/194, 252.3; 536/23.2 [IMAGE AVAILABLE]

25. 5,436,139, Jul. 25, 1995, Non-passageable virus; William J. Rutter, et al., 435/69.3, 71.1, 252.33, 320.1; 530/350; 536/23.72, 24.1 [IMAGE AVAILABLE]

26. 5,378,806, Jan. 3, 1995, Fusion protein produced by retrovirus-mediated secretion; John W. Willis, 530/350; 435/69.7; 530/412; 536/23.4 [IMAGE AVAILABLE]

27. 5,252,465, Oct. 12, 1993, Avian erythroblastosis virus vectors for integration and expression of heterologous genes in avian cells; Victor-Marc Nigon, et al., 435/69.1, 239, 320.1, 349, 467 [IMAGE AVAILABLE]

28. 5,196,338, Mar. 23, 1993, Recombinant vectors for Haemophilus influenzae peptides and proteins; Algis Anilionis, et al., 435/252.3, 69.1, 69.7, 320.1; 530/350 [IMAGE AVAILABLE]

29. 5,175,099, Dec. 29, 1992, Retrovirus-mediated secretion of recombinant products; John W. Wills, 435/69.7, 252.3, 320.1; 530/350; 536/23.72 [IMAGE AVAILABLE]

30. 5,166,057, Nov. 24, 1992, Recombinant negative strand RNA virus expression-systems; Peter Palese, et al., 435/69.1, 194, 235.1, 320.1, 463 [IMAGE AVAILABLE]

31. 5,098,997, Mar. 24, 1992, Vaccines for Haemophilus influenzae; Algis Anilionis, et al., 530/350; 435/69.3, 69.7, 851; 530/405, 806, 825 [IMAGE AVAILABLE]

32. 5,034,511, Jul. 23, 1991, Variant of LAV viruses; Marc Alizon, et al., 530/326; 435/5, 235.1; 530/324, 350, 395 [IMAGE AVAILABLE]

33. 5,030,714, Jul. 9, 1991, Variant of LAV viruses; Marc Alizon, et al., 530/326; 435/5, 235.1; 530/350, 395 [IMAGE AVAILABLE]

=> d 15,21,clms

US PAT NO: 5,733,779 [IMAGE AVAILABLE]

L4: 15 of 33

CLAIMS:

CLMS(1)

What is claimed is:

1. An **expression vector** for expressing a protein of interest by recombinant deoxyribonucleic acid techniques, said vector comprising at least one dominant selectable **marker**, wherein the **translation** initiation start site of said **marker** comprises the following sequence: ##STR28## where "Py" is a pyrimidine nucleotide; "x" is a nucleotide; and the numerical designations are relative to the codon

"ATG".

CLMS (2)

2. The **expression vector** of claim 1 wherein the vector comprises a nucleic acid sequence encoding the protein of interest is co-linked to said dominant selectable **marker**.

CLMS (3)

3. The **expression vector** of claim 1 wherein said dominant selectable **marker** is selected from the group consisting of: herpes simplex virus thymidine kinase, adenosine deaminase, asparagine synthetase, Salmonella his D gene, xanthine guanine phosphoribosyl transferase, hygromycin B phosphotransferase, and neomycin phosphotransferase.

CLMS (4)

4. The **expression vector** of claim 1 wherein said **translation** initiation start site sequence is selected from the group consisting of TxxATGCxx; CxxATGCxx; CxxATGTxx; and TxxATGTxx, where "x" is a nucleotide, with the proviso that the codon "Txx" downstream of the ATG codon does not encode a stop codon.

CLMS (5)

5. The **expression vector** of claim 1 wherein said **translation** initiation start site sequence is TxxATGCxx, where "x" is a nucleotide.

CLMS (6)

6. The **expression vector** of claim 1 wherein said **translation** initiation start site sequence is TCCATGCTT.

CLMS (7)

7. The **expression vector** of claim 1 wherein said **translation** initiation start site sequence is located within a secondary structure.

CLMS (8)

8. The **expression vector** of claim 1 wherein said **translation** initiation start site sequence further comprises at least one out-of-frame start codon within about 1000 nucleotides of the ATG start codon of said start site, with the proviso that no in-frame stop codon is located within said 1000 nucleotides.

CLMS (9)

9. The **expression vector** of claim 1 wherein said **translation** initiation start site sequence further comprises at least one out-of-frame start codon within about 350 nucleotides of the ATG start codon of said start site, with the proviso that no in-frame stop codon is located within said 350 nucleotides.

CLMS (10)

10. The **expression vector** of claim 1 wherein said **translation** initiation start site sequence further comprises at least one out-of-frame start codon within about 50 nucleotides of the ATG start codon of said start site, with the proviso that no in-frame stop codon is located within said 50 nucleotides.

CLMS (11)

11. The **expression vector** of claims 8, 9 or 10 wherein said out-of-frame start codon is part of a consensus Kozak sequence.

CLMS(12)

12. The **expression vector** of claim 10 wherein said out-of-frame start codon and said **translation** initiation start site sequence are both included as part of a secondary structure.

CLMS(13)

13. The **expression vector** of claims 8, 9 or 10 wherein said **translation** initiation start site sequence is part of a secondary structure and said out-of-frame start codon is not part of said secondary structure.

CLMS(14)

14. A dominant selectable **marker** encoded by a nucleic acid sequence, wherein the **translation** initiation start site of said dominant selectable **marker** is selected from the group consisting of TxxATGCxx; CxxATGCxx; CxxATGTxx; and TxxATGTxx, where "x" is a nucleotide, with the proviso that "Txx" downstream of the ATG codon does not encode a stop codon.

CLMS(15)

15. The **marker** of claim 14 wherein said dominant selectable **marker** is selected from the group consisting of herpes simplex virus thymidine kinase, adenosine deaminase, asparagine synthetase, Salmonella his D gene, xanthine guanine phosphoribosyl transferase, hygromycin B phosphotransferase, and neomycin phosphotransferase.

CLMS(16)

16. The **marker** of claim 14 wherein said **translation** initiation start site sequence is TxxATGCxx, where "x" is a nucleotide.

CLMS(17)

17. The **marker** of claim 14 wherein said **translation** initiation start site sequence is TCCATGCTT.

CLMS(18)

18. The **marker** of claim 14 wherein said **translation** initiation start site sequence is located within a secondary structure.

CLMS(19)

19. The **marker** of claim 14 wherein said **translation** initiation start site sequence further comprises at least one out-of-frame start codon within about 1000 nucleotides of the ATG start codon of said start site, with the proviso that no in-frame stop codon is located within said 1000 nucleotides.

CLMS(20)

20. The **marker** of claim 14 wherein said **translation** initiation start site sequence further comprises at least one out-of-frame start codon within about 350 nucleotides of the ATG start codon of said start site, with the proviso that no in-frame stop codon is located within said 350 nucleotides.

CLMS (21)

21. The **marker** of claim 14 wherein said **translation** initiation start site sequence further comprises at least one out-of-frame start codon within about 50 nucleotides of the ATG start codon of said start site, with the proviso that no in-frame stop codon is located within said 50 nucleotides.

CLMS (22)

22. The **marker** of claims 19, 20 and 21 wherein said out-of-frame start codon is part of a consensus Kozak sequence.

CLMS (23)

23. The **marker** of claim 21 wherein said out-of-frame start codon and said **translation** initiation start site sequence are both included as part of a secondary structure.

CLMS (24)

24. The **marker** of claims 19, 20, 21 wherein said **translation** initiation start site sequence is part of a secondary structure and said out-of-frame start codon is not part of said secondary structure.

CLMS (25)

25. An **expression vector** selected from the group consisting of ANEX 1 and ANEX 2.

CLMS (26)

26. A plasmid comprising the **expression vector** of claim 1 wherein the nucleic acid sequence encoding for said protein of interest is co-linked to said dominant selectable **marker**.

CLMS (27)

27. A mammalian host cell containing the plasmid of claim 26 wherein said plasmid is integrated within the cellular deoxyribonucleic acid of said mammalian host cell.

CLMS (28)

28. The mammalian host cell of claim 27 wherein said mammalian host cell is selected from the group consisting of DG44, DXB11, CV1, COS, R1610, SP2/O, P3x633-Ag8.653, BPA-1c1BPT, RAJI, and 293.

CLMS (29)

29. The **expression vector** of claim 1 further comprising an artificial intronic insertion region within said dominant selectable **marker**, wherein an encoding sequence for a protein of interest is located within said insertion region.

CLMS (30)

30. The dominant selectable **marker** of claim 14 further comprising an artificial intronic insertion region.

US PAT NO: 5,648,267 [IMAGE AVAILABLE]

L4: 21 of 33

CLAIMS:

CLMS (1)

What is claimed is:

1. An **expression vector** which expresses at least one protein of interest in a recombinant host cell wherein said **expression vector** comprises:

- (i) a translationally impaired neomycin phosphotransferase (NEO) dominant selectable **marker** gene which has been translationally impaired by modification of the region of the NEO gene which includes the NEO **translation** initiation start codon such that said modified region of the NEO gene which includes the NEO **translation** initiation start codon has the following nucleotide sequence:

CCA GCA TGG AGG A ATCGAT CC TCC ATG CTT (SEQ ID NO: 17)

which translationally impaired NEO gene is operably linked to a promoter and polyadenylation sequence; and

- (ii) at least one heterologous DNA which encodes for at least one protein of interest, wherein said heterologous DNA is operably linked to a promoter and polyadenylation sequence different from the promoter and polyadenylation sequence operably linked to the NEO gene, and wherein said heterologous DNA and said promoter and polyadenylation sequence operably linked to said heterologous are inserted into an intronic insertion region contained in the NEO gene.

CLMS (2)

2. The vector of claim 1 which further comprises a second dominant selectable **marker** gene.

CLMS (3)

3. The vector of claim 1 wherein the intronic insertion region is a synthetic intron sequence which is inserted between the CAG which encodes glycine at position 61 and the GAC which encodes aspartic acid at position 62 of the NEO gene.

CLMS (4)

4. The vector of claim 1 wherein the protein of interest is an antibody.

CLMS (5)

5. A recombinant host cell which contains the **expression vector** according to claim 1.

CLMS (6)

6. A recombinant host cell which contains the **expression vector** according to claim 2.

CLMS (7)

7. A recombinant host cell which contains the **expression vector** according to claim 3.

CLMS (8)

8. A recombinant host cell which contains the **expression vector** according to claim 4.

CLMS (9)

9. The recombinant host cell of claim 5 wherein said host cell is a mammalian cell.

10. The recombinant host cell of claim 9 wherein said mammalian cell is a Chinese hamster ovary cell.

=> s reinitiation? and expression vector?

440 REINITIATION?  
82754 EXPRESSION  
75087 VECTOR?  
9528 EXPRESSION VECTOR?  
(EXPRESSION(W) VECTOR?)  
L5 40 REINITIATION? AND EXPRESSION VECTOR?

=> s 15 and translation? reinitiation?

68787 TRANSLATION?  
440 REINITIATION?  
4 TRANSLATION? REINITIATION?  
(TRANSLATION? (W) REINITIATION?)  
L6 3 L5 AND TRANSLATION? REINITIATION?

=> d 16,1-3,cit,ab

1. 5,856,144, Jan. 5, 1999, Direct cloning of DNA fragments; Robert C. Mierendorf, et al., 435/91.2, 91.4, 320.1 [IMAGE AVAILABLE]

US PAT NO: 5,856,144 [IMAGE AVAILABLE] L6: 1 of 3

ABSTRACT:

A vector for the direct cloning of the products of PCR protocol incorporates single nucleotide overhangs at one or both ends of a linearized DNA segment. The single nucleotide overhangs are uracil or inosine residues, as desired, to facilitate cloning of the desired PCR products.

2. 5,759,852, Jun. 2, 1998, **Expression vector** containing PL6M promoter and TAT32 ribosome binding site and host cells transformed therewith; Richard J. Kirschner, et al., 435/320.1, 252.8; 536/24.1 [IMAGE AVAILABLE]

US PAT NO: 5,759,852 [IMAGE AVAILABLE] L6: 2 of 3

ABSTRACT:

Disclosed are **expression vectors** useful as vectors in recombinant methods to facilitate expression of exogenous genes in E. coli. Specifically, the disclosed **expression vector** has the following elements in operable linkage: the PL6m promoter, the TAT32 ribosome binding site and a gene encoding a heterologous polypeptide, Also disclosed are E. coli host cells transformed with this **expression vector**.

3. 5,510,256, Apr. 23, 1996, Eliminating internal initiation of soluble CD4 gene; Richard J. Kirschner, et al., 435/91.41, 69.1, 70.1, 252.3, 320.1; 536/23.5, 24.1 [IMAGE AVAILABLE]

US PAT NO: 5,510,256 [IMAGE AVAILABLE] L6: 3 of 3

ABSTRACT:

The present invention is based upon the discovery that proteins made from genes that include the CD4 sequence in its cDNA can make additional polypeptides as a result of internal translation initiation. This invention is thus directed to DNA sequences which eliminate internal initiation expression in sCD4.



US PAT NO: 5,759,852 [IMAGE AVAILABLE] L6: 2 of 3  
TITLE: **Expression vector** containing PL6M promoter and  
TAT32 ribosome binding site and host cells transformed  
therewith

ABSTRACT:

Disclosed are **expression vectors** useful as vectors in recombinant methods to facilitate expression of exogenous genes in E. coli. Specifically, the disclosed **expression vector** has the following elements in operable linkage: the PL6m promoter, the TAT32 ribosome binding site and a gene encoding a heterologous polypeptide, Also disclosed are E. coli host cells transformed with this **expression vector**.

SUMMARY:

BSUM(10)

The . . . Res. 10:2971-2996; Schneider, T., et al. (1986) "Information Content of Binding Sites on Nucleotide Sequences." J. Mol. Biol. 188:415-431). Additionally, **translation reinitiation** can occur if a translational start signal overlaps (Oppenheim, D., and Yanofsky, C. (1980) "Translational Coupling During the Expression of. . . (Steitz, J. (1979) "Genetic signals and nucleotide sequences in messenger RNA." In "Biological Regulation and Development. 1. Gene Expression.") Such **reinitiation** does not require a Shine-Dalgarno sequence and differs from the intragenic initiation discussed herein.

CLAIMS:

CLMS(1)

We claim:

1. An **expression vector** comprising the following elements in operable linkage: the P.sub.L6m promoter, the TAT32 ribosome binding site and a gene encoding a . . .

CLAIMS:

CLMS(2)

2. The **expression vector** of claim 1 wherein the gene encodes sCD4-PE40.

CLAIMS:

CLMS(3)

3. The **expression vector** of claim 1 which is pUC1456.

CLAIMS:

CLMS(4)

4. An E. coli host cell transformed with the **expression vector** of claim 1.

LIGHT set on as ' '

? begin 5,6,55,154,155,156,312,399,biotech,biosci

| Set | Items  | Description                    |
|-----|--------|--------------------------------|
| --- | -----  | -----                          |
| ? s |        | reinitiation? and translation? |
|     | 5265   | REINITIATION?                  |
|     | 473331 | TRANSLATION?                   |
| S1  | 913    | REINITIATION? AND TRANSLATION? |
| ? s | s1     | and expression vector?         |

|     |      |                           |
|-----|------|---------------------------|
|     | 913  | S1                        |
|     | 4669 | EXPRESSION VECTOR?        |
| S2  | 0    | S1 AND EXPRESSION VECTOR? |
| ? s | s1   | and vector?               |

|     |        |                |
|-----|--------|----------------|
|     | 913    | S1             |
|     | 793456 | VECTOR?        |
| S3  | 70     | S1 AND VECTOR? |
| ? s | s3     | and expression |

|      |         |                   |
|------|---------|-------------------|
|      | 70      | S3                |
|      | 3149954 | EXPRESSION        |
| S4   | 48      | S3 AND EXPRESSION |
| ? rd | s4      |                   |

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...completed examining records

|     |           |                      |
|-----|-----------|----------------------|
| S5  | 27        | RD S4 (unique items) |
| ? d | s5/3/1-27 |                      |

Display 5/3/1 (Item 1 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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10107346 BIOSIS NO.: 199698562264  
Phage RNA polymerase **vectors** that allow efficient gene  
**expression** in both prokaryotic and eukaryotic cells.

AUTHOR: He Biao; McAllister William T; Durbin Russell K(a)  
AUTHOR ADDRESS: (a)Dep. Microbiol. Immunol., SUNY Health Sci. Center  
Brooklyn, 450 Clarkson Ave., Brooklyn, NY 1120, USA

JOURNAL: Gene (Amsterdam) 164 (1):p75-79 1995  
ISSN: 0378-1119  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

- end of record -

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Display 5/3/2 (Item 2 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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08377113 BIOSIS NO.: 000094107617  
**TRANSLATION** OF THE RAT LINE BICISTRONIC RNAS IN-VITRO INVOLVES

..  
RIBOSOMAL REINITIATION INSTEAD OF FRAMESHIFTING

AUTHOR: ILVES H; KAHRE O; SPEEK M

AUTHOR ADDRESS: DEP. MOLECULAR BIOLOGY, TARTU UNIVERSITY, 2 JAKOBI STREET,  
TARTU 202400, ESTONIA.

JOURNAL: MOL CELL BIOL 12 (9). 1992. 4242-4248.

FULL JOURNAL NAME: Molecular and Cellular Biology

CODEN: MCEBD

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

- end of record -

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Display 5/3/3 (Item 3 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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07259200 BIOSIS NO.: 000090039076

TGATG **VECTOR** A NEW **EXPRESSION** SYSTEM FOR CLONED FOREIGN GENES  
IN ESCHERICHIA-COLI CELLS

AUTHOR: MASHKO S V; VEIKO V P; LAPIDUS A L; LEBEDEVA M I; MOCHULSKY A V;  
SHECHTER I I; TRUKHAN M E; RATMANOVA K I; REBENTISH B A; ET AL  
AUTHOR ADDRESS: INST. GENETICS SELECTION INDUS. MICROORGANISM, 113545,  
FIRST DOROZHNYJ PR., 1A, MOSCOW, USSR.

JOURNAL: GENE (AMST) 88 (1). 1990. 121-126.

FULL JOURNAL NAME: GENE (Amsterdam)

CODEN: GENED

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

- end of record -

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Display 5/3/4 (Item 4 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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06584390 BIOSIS NO.: 000087026551

SIGNALS IMPORTANT FOR HIGH-LEVEL **EXPRESSION** OF FOREIGN GENES IN  
AUTOGRAPHICA-CALIFORNICA NUCLEAR POLYHEDROSIS VIRUS **EXPRESSION**  
**VECTORS**

AUTHOR: LUCKOW V A; SUMMERS M D

AUTHOR ADDRESS: DEP. ENTOMOL., TEXAS A AND M UNIV., AND TEXAS AGRIC.  
EXPERIMENT STN., COLL. STN., TEXAS 77843-2475.

JOURNAL: VIROLOGY 167 (1). 1988. 56-71.

FULL JOURNAL NAME: Virology

CODEN: VIRLA

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

- end of record -

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Display 5/3/5 (Item 5 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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06562359 BIOSIS NO.: 000087004520

**EXPRESSION** OF THE BISPHOSPHATASE DOMAIN OF RAT LIVER 6

PHOSPHOFRUCTO-2-KINASE-FRUCTOSE-2 6-BISPHOSPHATASE IN ESCHERICHIA-COLI

AUTHOR: TAULER A; ROSENBERG A H; COLOSIA A; STUDIER F W; PILKIS S J  
AUTHOR ADDRESS: DEP. PHYSIOL. BIOPHYS., STATE UNIV. N.Y. STONY BROOK, STONY  
BROOK, N.Y. 11794.

JOURNAL: PROC NATL ACAD SCI U S A 85 (18). 1988. 6642-6646.  
FULL JOURNAL NAME: Proceedings of the National Academy of Sciences of the  
United States of America  
CODEN: PNASA  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

- end of record -

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Display 5/3/6 (Item 6 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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05477189 BIOSIS NO.: 000033078042  
**EXPRESSION** OF HUMAN PANCREATIC POLYPEPTIDE PRECURSORS FROM A  
DICISTRONIC MESSENGER RNA IN MAMMALIAN CELLS

AUTHOR: BOEL E; BERKNER K L; NEXO B A; SCHWARTZ T W  
AUTHOR ADDRESS: NOVO RES. INST., LAB. GENETICS, DK-2880  
BAGSVAERD-COPENHAGEN, DEN.

JOURNAL: FEBS (FED EUR BIOCHEM SOC) LETT 219 (1). 1987. 181-188.  
FULL JOURNAL NAME: FEBS (Federation of European Biochemical Societies)  
Letters  
CODEN: FEBLA  
RECORD TYPE: Citation  
LANGUAGE: ENGLISH

- end of record -

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Display 5/3/7 (Item 7 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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05230257 BIOSIS NO.: 000082070879  
**TERMINATION-REINITIATION** OCCURS IN THE **TRANSLATION** OF MAMMALIAN  
CELL MESSENGER RNA

AUTHOR: PEABODY D S; BERG P  
AUTHOR ADDRESS: DEP. OF CELL BIOL., CANCER RES. AND TREATMENT CENT., UNIV.  
OF NM, ALBUQUERQUE, NEW MEXICO 87131.

JOURNAL: MOL CELL BIOL 6 (7). 1986. 2695-2703.  
FULL JOURNAL NAME: Molecular and Cellular Biology  
CODEN: MCEBD  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

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Display 5/3/8 (Item 1 from file: 154)  
DIALOG(R)File 154:MEDLINE(R)  
(c) format only 1999 Dialog Corporation. All rts. reserv.

08662373 96332659  
mRNA sequences influencing **translation** and the selection of AUG

initiator codons in the yeast *Saccharomyces cerevisiae*  
Yun DF; Laz TM; Clonts JM; Sherman F  
Department of Biochemistry, University of Rochester, School of Medicine  
and Dentistry, New York 14642, USA.  
Mol Microbiol (ENGLAND) Mar 1996, 19 (6) p1225-39, ISSN 0950-382X  
Journal Code: MOM  
Contract/Grant No.: T32 GM07098, GM, NIGMS; R01 GM12702, GM, NIGMS  
Languages: ENGLISH  
Document type: JOURNAL ARTICLE

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Display 5/3/9 (Item 1 from file: 312)  
DIALOG(R)File 312:CA SEARCH(R)  
(c) 1997 American Chemical Society. All rts. reserv.

111002107 CA: 111(1)2107z JOURNAL  
High level expression of nonfused foreign genes with Autographa  
californica nuclear polyhedrosis virus expression vectors  
AUTHOR(S): Luckow, Verne A.; Summers, Max D.  
LOCATION: Dep. Entomol., Texas A and M Univ., College Station, TX,  
77843-2475, USA  
JOURNAL: Virology DATE: 1989 VOLUME: 170 NUMBER: 1 PAGES: 31-9  
CODEN: VIRLAX ISSN: 0042-6822 LANGUAGE: English

- end of record -

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Display 5/3/10 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 1999 American Chemical Society. All rts. reserv.

126234445 CA: 126(18)234445w PATENT  
Retroviral expression systems involving translation reinitiation for  
selectable marker gene expression from desired gene-marker gene mRNA  
INVENTOR(AUTHOR): Collins, Mary Katharine Levinge; Weiss, Robin Anthony;  
Takeuchi, Yasuhiro; Cosset, Francois-Lois  
LOCATION: UK,  
ASSIGNEE: Cancer Research Campaign Technology Limited; Collins, Mary  
Katharine Levinge; Weiss, Robin Anthony; Takeuchi, Yasuhiro; Cosset,  
Francois-Lois  
PATENT: PCT International ; WO 9708330 A1 DATE: 19970306  
APPLICATION: WO 96GB2061 (19960823) \*GB 9517263 (19950823)  
PAGES: 76 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-015/86A;  
C12N-005/10B; C12N-015/67B DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BB;  
BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IL; IS; JP;  
KE; KG; KP; KR; KZ; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ;  
PL; PT; RO; RU; SD; SE; SG; SI; SK; TJ; TM; TR; TT; UA; UG; US; UZ; VN; AM;

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Display 5/3/10 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 1999 American Chemical Society. All rts. reserv.  
AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: KE; LS; MW; SD; SZ; UG  
; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF;  
BJ; CF; CG; CI; CM

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Display 5/3/11 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 1999 Inst for Sci Info. All rts. reserv.

06077431 Genuine Article#: XT844 No. References: 2  
Title: Requirement of a limited segment of the sog gene for plasmid R64 conjugation  
Author(s): Narahara K (REPRINT) ; Rahman E; Furuya N; Komano T  
Corporate Source: TOKYO METROPOLITAN UNIV, DEPT BIOL/HACHIOJI/TOKYO 19203/JAPAN/ (REPRINT)  
Journal: PLASMID, 1997, V38, N1, P1-11  
ISSN: 0147-619X Publication date: 19970000  
Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

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Display 5/3/12 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.

05967435 Genuine Article#: XL098 No. References: 18  
Title: Purification of active Escherichia coli ribosome recycling factor (RRF) from an osmo-regulated **expression** system  
Author(s): MacDougall J; HolstHansen P; Mortensen KK; Freistroffer DV; Pavlov MY; Ehrenberg M; Buckingham RH (REPRINT)  
Corporate Source: INST BIOL PHYS CHIM, CNRS, UPR 9073, 13 RUE PIERRE & MARIE CURIE/F-75005 PARIS//FRANCE/ (REPRINT); INST BIOL PHYS CHIM, CNRS, UPR 9073/F-75005 PARIS//FRANCE/; AARHUS UNIV, DEPT CHEM/DK-8000 AARHUS C//DENMARK/; UPPSALA UNIV, DEPT MOL BIOL, BMC/S-75124 UPPSALA//SWEDEN/  
Journal: BIOCHIMIE, 1997, V79, N5 (MAY), P243-246  
ISSN: 0300-9084 Publication date: 19970500  
Publisher: EDITIONS SCIENTIFIQUES MEDICALES ELSEVIER, 141 RUE JAVEL, 75747 PARIS CEDEX 15, FRANCE  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

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Display 5/3/13 (Item 3 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.

04459737 Genuine Article#: TE366 No. References: 43  
Title: HIGH-TITER PACKAGING CELLS PRODUCING RECOMBINANT RETROVIRUSES RESISTANT TO HUMAN SERUM  
Author(s): COSSET FL; TAKEUCHI Y; BATTINI JL; WEISS RA; COLLINS MKL  
Corporate Source: INST CANC RES, CHESTER BEATTY LABS, 237 FULHAM RD/LONDON SW3 6JB//ENGLAND/; INST CANC RES, CHESTER BEATTY LABS/LONDON SW3 6JB//ENGLAND/; UNIV LYON 1, CNRS, UMR 106, CTR GENET MOLEC & CELLULAIRE/F-69622 VILLEURBANNE//FRANCE/; INST PASTEUR, RETROVIRUS & TRANSFER GENET LAB, CNRS, URA 1157/F-75724 PARIS 15//FRANCE/  
Journal: JOURNAL OF VIROLOGY, 1995, V69, N12 (DEC), P7430-7436  
ISSN: 0022-538X  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

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Display 5/3/14 (Item 4 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.

04402097 Genuine Article#: TA617 No. References: 52  
Title: MODULATION OF TRNA(I)(MET), EIF-2, AND EIF-2B **EXPRESSION** SHOWS

THAT GCN4 **TRANSLATION** IS INVERSELY COUPLED TO THE LEVEL OF  
EIF-2-CENTER-DOT P-CENTER-DOT-MET-TRNA(I) (MET) RINARY COMPLEXES  
Author(s): DEVER TE; LANG WM; ASTROM S; BYSTROM AS; HINNEBUSCH AG  
Corporate Source: NICHHD, MOLEC GENET LAB, MOLEC GENET LOWER EUKARYOTES  
SECT/BETHESDA//MD/20892; NICHHD, MOLEC GENET LAB, MOLEC GENET LOWER  
EUKARYOTES SECT/BETHESDA//MD/20892; UMEA UNIV, DEPT MICROBIOL/S-90187  
UMEA//SWEDEN/  
Journal: MOLECULAR AND CELLULAR BIOLOGY, 1995, V15, N11 (NOV), P6351-6363  
ISSN: 0270-7306  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

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Display 5/3/15 (Item 5 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.

04177508 Genuine Article#: RM081 No. References: 53  
Title: GCD10, A **TRANSLATIONAL** REPRESSOR OF GCN4, IS THE RNA-BINDING  
SUBUNIT OF EUKARYOTIC **TRANSLATION** INITIATION FACTOR-III  
Author(s): GARCIBARRIO MT; NARANDA T; DEALDANA CRV; CUESTA R; HINNEBUSCH  
AG; HERSHEY JWB; TAMAME M  
Corporate Source: UNIV SALAMANCA, FAC BIOL, INST MICROBIOL BIOQUIM, CONSEJO  
SUPER INVEST CIENTIF/E-37008 SALAMANCA//SPAIN/; UNIV SALAMANCA, FAC  
BIOL, INST MICROBIOL BIOQUIM, CONSEJO SUPER INVEST CIENTIF/E-37008  
SALAMANCA//SPAIN/; NICHHD, MOLEC GENET LOWER EUKARYOTES SECT, GENET MOLEC  
LAB/BETHESDA//MD/20892; UNIV CALIF DAVIS, SCH MED, DEPT BIOL  
CHEM/DAVIS//CA/95616  
Journal: GENES & DEVELOPMENT, 1995, V9, N14 (JUL 15), P1781-1796  
ISSN: 0890-9369  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

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Display 5/3/16 (Item 6 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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01896750 Genuine Article#: JJ828 No. References: 34  
Title: DYSTROPHIN IN FRAMESHIFT DELETION PATIENTS WITH BECKER  
MUSCULAR-DYSTROPHY  
Author(s): GANGOPADHYAY SB; SHERRATT TG; HECKMATT JZ; DUBOWITZ V; MILLER G;  
SHOKEIR M; RAY PN; STRONG PN; WORTON RG  
Corporate Source: HOSP SICK CHILDREN, DEPT GENET, 555 UNIV AVE/TORONTO M5G  
1X8/ONTARIO/CANADA/; HOSP SICK CHILDREN, DEPT GENET, 555 UNIV AVE/TORONTO  
M5G 1X8/ONTARIO/CANADA/; UNIV SASKATCHEWAN HOSP, DEPT PEDIAT, DIV MED  
GENET/SASKATOON S7N 0W8/SASKATCHEWAN/CANADA/; HOSP SICK CHILDREN, RES  
INST/TORONTO M5G 1X8/ONTARIO/CANADA/; UNIV TORONTO, DEPT MOLEC & MED  
GENET/TORONTO M5S1A1/ONTARIO/CANADA/; HAMMERSMITH HOSP, ROYAL POSTGRAD  
MED SCH, JERRY LEWIS MUSCLE RES CTR, DEPT PEDIAT & NEONATAL MED/LONDON  
W12 0HS//ENGLAND/; UNIV HOSP HERSHEY, PENN STATE COLL MED, DEPT  
PEDIAT, DIV NEUROL/HERSHEY//PA/00000  
Journal: AMERICAN JOURNAL OF HUMAN GENETICS, 1992, V51, N3 (SEP), P562-570  
ISSN: 0002-9297

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DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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Language: ENGLISH Document Type: ARTICLE (Abstract Available)



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Display 5/3/17 (Item 7 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.  
  
01789556 Genuine Article#: JB278 No. References: 45  
Title: REPLICATION CONTROL OF PLASMID-R1 - REPA SYNTHESIS IS REGULATED BY  
COPA RNA THROUGH INHIBITION OF LEADER PEPTIDE **TRANSLATION**  
Author(s): BLOMBERG P; NORDSTROM K; WAGNER EGH  
Corporate Source: UNIV UPPSALA,CTR BIOMED,DEPT MICROBIOL,BOX 581/S-75123  
UPPSALA//SWEDEN/  
Journal: EMBO JOURNAL, 1992, V11, N7 (JUL), P2675-2683  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

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Display 5/3/18 (Item 8 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.  
  
01658412 Genuine Article#: HP817 No. References: 49  
Title: THE FULL-LENGTH TRANSCRIPT OF A CAULIMOVIRUS IS A POLYCISTRONIC  
MESSENGER-RNA WHOSE GENES ARE TRANS ACTIVATED BY THE PRODUCT OF GENE-VI  
Author(s): SCHOLTHOF HB; GOWDA S; WU FC; SHEPHERD RJ  
Corporate Source: UNIV KENTUCKY,DEPT PLANT PATHOL/LEXINGTON//KY/40546; UNIV  
KENTUCKY,DEPT PLANT PATHOL/LEXINGTON//KY/40546  
Journal: JOURNAL OF VIROLOGY, 1992, V66, N5 (MAY), P3131-3139  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

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Display 5/3/19 (Item 9 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.  
  
01203932 Genuine Article#: GD893 No. References: 26  
Title: IMPROVED **VECTORS** FOR STABLE **EXPRESSION** OF FOREIGN GENES  
IN MAMMALIAN-CELLS BY USE OF THE UNTRANSLATED LEADER SEQUENCE FROM EMC  
VIRUS  
Author(s): KAUFMAN RJ; DAVIES MV; WASLEY LC; MICHNICK D  
Corporate Source: GENET INST,87 CAMBRIDGE PK DR/CAMBRIDGE//MA/02140  
Journal: NUCLEIC ACIDS RESEARCH, 1991, V19, N16, P4485-4490  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

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Display 5/3/20 (Item 10 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 1999 Inst for Sci Info. All rts. reserv.  
  
00351675 Genuine Article#: DK854 No. References: 49  
Title: SCANNING MODEL FOR **TRANSLATIONAL REINITIATION** IN  
EUBACTERIA  
Author(s): ADHIN MR; VANDUIN J  
Corporate Source: LEIDEN STATE UNIV,GORLAEUS LABS,DEPT BIOCHEM,POB  
9502/2300 RA LEIDEN//NETHERLANDS/; LEIDEN STATE UNIV,GORLAEUS LABS,DEPT  
BIOCHEM,POB 9502/2300 RA LEIDEN//NETHERLANDS/  
Journal: JOURNAL OF MOLECULAR BIOLOGY, 1990, V213, N4, P811-818  
Language: ENGLISH Document Type: ARTICLE

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Display 5/3/21 (Item 1 from file: 357)  
DIALOG(R)File 357:Derwent Biotechnology Abs  
(c) 1999 Derwent Publ Ltd. All rts. reserv.

0210442 DBA Accession No.: 97-05563 PATENT  
Retro virus packaging cell line and **expression** constructs, comprising  
selectable marker gene downstream of gene of interest - retro virus  
**vector** and packaging cell culture for use in gene therapy  
AUTHOR: Collins M K L; Weiss R A; Takeuchi Y; Cosset F L  
CORPORATE SOURCE: London, UK.  
PATENT ASSIGNEE: Cancer-Res.Campaign-Technol. 1997  
PATENT NUMBER: WO 9708330 PATENT DATE: 970306 WPI ACCESSION NO.:  
97-179287 (9716)  
PRIORITY APPLIC. NO.: GB 9517263 APPLIC. DATE: 950823  
NATIONAL APPLIC. NO.: WO 96GB2061 APPLIC. DATE: 960823  
LANGUAGE: English

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Display 5/3/22 (Item 2 from file: 357)  
DIALOG(R)File 357:Derwent Biotechnology Abs  
(c) 1999 Derwent Publ Ltd. All rts. reserv.

0152830 DBA Accession No.: 93-10882  
Efficient **expression** of human interleukin-1-alpha gene in Escherichia  
coli under the control of a T7 RNA-polymerase-derived system - gene  
cloning using TGATG overlappon **vector** plasmid  
pET-TGATG-hIL-1-alpha  
AUTHOR: Lebedeva M I; Tsyba N A; Kotenko S V; Epishin S M; Lomakin I B;  
Vinetski Y P  
CORPORATE SOURCE: Institute for Genetics and Selection of Industrial  
Microorganisms, Moscow, 113545, Russia.  
JOURNAL: Biotekhnologiya (4, 18-25) 1993  
CODEN: BTKNEZ  
LANGUAGE: English

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Display 5/3/23 (Item 3 from file: 357)  
DIALOG(R)File 357:Derwent Biotechnology Abs  
(c) 1999 Derwent Publ Ltd. All rts. reserv.

0082929 DBA Accession No.: 89-00920  
**Vectors** for in vitro synthesis of poly(A)+RNA transcripts - maize  
zein seed storage protein gene cloning and **expression**;  
microinjection in Xenopus laevis oocyte; **vector** construction  
AUTHOR: Hoffman L M; Donaldson D D  
CORPORATE AFFILIATE: Agrigenetics  
CORPORATE SOURCE: Agrigenetics Advanced Science Co., 5649 E. Buckeye Road,  
Madison, WI 53716, USA.  
JOURNAL: Gene (67, 1, 137-40) 1988  
CODEN: GENED6  
LANGUAGE: English

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Display 5/3/24 (Item 1 from file: 370)  
DIALOG(R)File 370:Science  
(c) 1999 AAAS. All rts. reserv.

00506457 (USE 9 FULLTEXT)  
Promotion of Met-tRNA<sup>inf(i)</sup>.sup(Met) Binding to Ribosomes by yIF2, a  
Bacterial IF2 Homolog in Yeast  
Choi, Sang Ki; Lee, Joon H.; Zoll, Wendy L.; Merrick, William C.; Dever,  
Thomas E.  
S. K. Choi, J. H. Lee, T. E. Dever, Laboratory of Eukaryotic Gene  
Regulation, National Institute of Child Health and Human Development,  
National Institutes of Health, Bethesda, MD 20892-2716, USA. ; W. L. Zoll  
and W. C. Merrick, Department of Biochemistry, Case Western Reserve  
University, Cleveland, OH 44106, USA.  
Science Vol. 280 5370 pp. 1757  
Publication Date: 6-12-1998 (980612) Publication Year: 1998  
Document Type: Journal ISSN: 0036-8075  
Language: English  
Section Heading: Reports  
Word Count: 2691

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Display 5/3/25 (Item 1 from file: 434)  
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci  
(c) 1998 Inst for Sci Info. All rts. reserv.

09614710 Genuine Article#: AG839 No. References: 32  
Title: **TRANSLATIONAL REINITIATION** IN THE PRESENCE AND ABSENCE  
OF A SHINE AND DALGARNO SEQUENCE  
Author(s): SPANJAARD RA; VANDUIN J  
Corporate Source: UNIV LEIDEN, GORLAeus LABS, DEPT BIOCHEM, EINSTEINWEG 5/2333  
CC LEIDEN//NETHERLANDS/; UNIV LEIDEN, GORLAeus LABS, DEPT  
BIOCHEM, EINSTEINWEG 5/2333 CC LEIDEN//NETHERLANDS/  
Journal: NUCLEIC ACIDS RESEARCH, 1989, V17, N14, P5501-5507  
Language: ENGLISH Document Type: ARTICLE

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Display 5/3/26 (Item 2 from file: 434)  
DIALOG(R)File 434:SciSearch(R) Cited Ref Sci  
(c) 1998 Inst for Sci Info. All rts. reserv.

07372689 Genuine Article#: C9356 No. References: 58  
Title: **TERMINATION-REINITIATION** OCCURS IN THE **TRANSLATION** OF  
MAMMALIAN-CELL MESSENGER-RNAs  
Author(s): PEABODY DS; BERG P  
Corporate Source: STANFORD UNIV, MED CTR, DEPT BIOCHEM/STANFORD//CA/94305  
Journal: MOLECULAR AND CELLULAR BIOLOGY, 1986, V6, N7, P2695-2703  
Language: ENGLISH Document Type: ARTICLE

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Display 5/3/27 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abstracts Online  
(c) 1999 UMI. All rts. reserv.

896061 ORDER NO: AAD85-21216  
GENETIC BARRIERS TO THE HETEROLOGOUS GENE **EXPRESSION** IN BACILLUS  
SUBTILIS (CAT)  
Author: LIN, CHIH-KAI J.  
Degree: PH.D.  
Year: 1985  
Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, DAVIS (0029)  
Source: VOLUME 46/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

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DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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06584390 BIOSIS NO.: 000087026551  
SIGNALS IMPORTANT FOR HIGH-LEVEL **EXPRESSION** OF FOREIGN GENES IN  
AUTOGRAPHA-CALIFORNICA NUCLEAR POLYHEDROSIS VIRUS **EXPRESSION**  
**VECTORS**

AUTHOR: LUCKOW V A; SUMMERS M D  
AUTHOR ADDRESS: DEP. ENTOMOL., TEXAS A AND M UNIV., AND TEXAS AGRIC.  
EXPERIMENT STN., COLL. STN., TEXAS 77843-2475.

JOURNAL: VIROLOGY 167 (1). 1988. 56-71.  
FULL JOURNAL NAME: Virology  
CODEN: VIRLA  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

ABSTRACT: The transcriptional and **translational** signals required for

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Display 5/9/4 (Item 4 from file: 5)  
DIALOG(R)File 5:BIOSIS PREVIEWS(R)  
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efficient **expression** of the chloramphenicol acetyltransferase, .beta.-galactosidase, and tissue plasminogen activator genes, under the control of the polyhedrin promoter in Spodoptera frugiperda cells infected with Autographa californica nuclear polyhedrosis virus, were investigated by SDS-PAGE and RNA dot blot analysis. The recombinant baculoviruses all contained alterations in the leader sequence or 5' proximal coding region of the polyhedrin gene. Highest levels of foreign proteins and polyhedrin-linked mRNA were observed when portions of the coding sequence of the polyhedrin gene were fused in phase with the foreign gene. Recombinant viruses in which the foreign gene was inserted upstream from the polyhedrin ATG start codon expressed nonfused products but at lower levels than constructs which produced fusion proteins. A corresponding decrease in the levels of mRNAs produced by such constructs was also observed. Some constructs in which the foreign gene was inserted out of phase downstream from the polyhedrin start codon expressed nonfused protein products at low levels but produced polyhedrin-linked mRNA at levels comparable to **vectors** which produced protein

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fusions. These data suggest that **reinitiation of translation** can take place at AUG start codons a short distance downstream from the primary polyhedrin start codon. These results indicate that sequences immediately upstream from the polyhedrin start codon are important for regulation of transcription and that additional sequences near the AUG start codon can have a dramatic influence on the levels of

translation observed.

DESCRIPTORS: SPODOPTERA-FRUGIPERDA CELLS CHLORAMPHENICOL ACETYLTRANSFERASE  
GENE BETA GALACTOSIDASE GENE TISSUE PLASMINOGEN ACTIVATOR GENE  
TRANSCRIPTION **TRANSLATION** POLYHEDRIN GENE REGIONS

CONCEPT CODES:

03502 Genetics and Cytogenetics-General  
03506 Genetics and Cytogenetics-Animal  
10062 Biochemical Studies-Nucleic Acids, Purines and Pyrimidines  
10300 Replication, Transcription, Translation  
10506 Biophysics-Molecular Properties and Macromolecules

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